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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/628,186	07/28/2000	Paul Chinn	P 037003 0280721	2673
759	90 08/06/2004		EXAM	INER
Robin L. Teski	in		SAUNDERS, DAVID A	
Shaw Pittman 2300 N Street, N	J W		ART UNIT	PAPER NUMBER
Washington De			1644	

DATE MAILED: 08/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)
Office Action Summary	Examiner Group Art Unit SAUNDERS 1644
Onice Action Summary	Examiner Group Art Unit
	SAUNDERS 16F7
—The MAILING DATE of this communication appears	on the cover sheet beneath the correspondence address-
Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE MONTH(S) FROM THE MAILING DAT
from the mailing date of this communication.	
Status	
P Responsive to communication(s) filed on 5/28/0	£
☐ This action is FINAL.	
☐ Since this application is in condition for allowance except for	r formal matters, prosecution as to the merits is closed in
accordance with the practice under Ex parte Quayle, 1935	
Disposition of Claims	
D Claim(s) 1-16, 18, 4-9-63	is/are pending in the application.
Of the above claim(s)	is/are withdrawn from consideration
□ Clajm(s)	is/are allowed.
Claim(s) 1-16/849-63	is/are rejected.
Claim(s) $1-16/8+9-63$ Claim(s)	is/are objected to.
	are subject to restriction or election requirement.
☐ Claim(s)————————————————————————————————————	are subject to restriction or election requirement.
☐ Claim(s)————————————————————————————————————	requirement.
 □ Claim(s) Application Papers □ See the attached Notice of Draftsperson's Patent Drawing I □ The proposed drawing correction, filed on 	requirement. Review, PTO-948 is □ approved □ disapproved.
□ Claim(s) Application Papers □ See the attached Notice of Draftsperson's Patent Drawing I □ The proposed drawing correction, filed on □ The drawing(s) filed on	requirement. Review, PTO-948 is □ approved □ disapproved.
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□ Claim(s)————————————————————————————————————	requirement. Review, PTO-948 is □ approved □ disapproved. I to by the Examiner.
□ Claim(s) Application Papers □ See the attached Notice of Draftsperson's Patent Drawing II □ The proposed drawing correction, filed on	requirement. Review, PTO-948. is approved disapproved. I to by the Examiner. or 35 U.S.C. § 11 9(a)-(d).
□ Claim(s) Application Papers □ See the attached Notice of Draftsperson's Patent Drawing II □ The proposed drawing correction, filed on	requirement. Review, PTO-948. is approved disapproved. I to by the Examiner. or 35 U.S.C. § 11 9(a)-(d). or priority documents have been
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U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.

1) FILE HISTORY SINCE FINAL REJECTION

A Final rejection of claims 1-16, 18 and 49-61 was mailed 1/5/04.

An After Final amendment was filed 4/5/04.

The After Final amendment of 4/5/04 was entered. The Office mailed a nonfinal rejection of claims 1-4, 6-8, 10-13, 18, 49, 52-55 and 60-63 on 5/26/04; claims 5, 9, 14-16, 50-51 and 56-59 were objected to.

A Request for Continuing Examination was filed 5/28/04. This was accompanied by a preliminary amendment. The claims and urgings presented therein are identical to those presented in the After Final amendment of 4/5/04.

An IDS was filed 5/28/04.

An IDS was filed 7/7/04.

2) SUMMARY OF ACTION INFRA

Claims 1-16, 18 and 49-63 are pending. Since the claims are the same as those presented on 4/5/04, this action will state the prior art rejection set forth in the action of 5/26/04. In addition new grounds of rejection, not stated in the action of 5/26/04, will be stated. The IDS statements of 5/28/04 and 7/7/04 will be considered. Anderson et al (WO94/11026), cited in the IDS of 5/28/04, will not be applied as prior art; they teach that "all preparations of yttriumlabeled conjugates were purified by size-exclusion chromatography" (pg. 31, lines 17-18).

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3) ART REJECTION STATED IN PREVIOUS OFFICE ACTION

Claims 1-4, 6-8, 10-13, 18, 49, 52-55 and 60-63 are rejected under 35 U.S.C. 102(b) as being anticipated by Albert et al (5,650,134).

Albert et al show somatostatin peptides conjugated at their N-terminal, to a chelating moiety. These compounds thus fall within the scope of the instantly recited "peptide" and "ligand" (since somatostatin peptides bind to receptors; see col. 1, line 10).

Example 11 shows the limitations of instant claim 1. The radiochemical purity is 99.5% (col.19, lines 46-47); Examiner takes "radiochemical purity" to be equivalent to "radioincoporation," since applicant has argued such in the response of 4/5/04.

The examiner calculates the specific activity as approx. 800mci/mg. See attached sheet of calculations. Therein, examiner has estimated the m.w. of the chelator peptide conjugate (compound of Example 3) as approx. 2000g. The octreotide moiety is estimated to be approx. 880g (taking 110g as the av. m.w. of an amino acid residue). The examiner also guesstimates the m.w. of the linker and chelater to be approx 1000. The peptide and chelating moieties together thus add up to 1880g; and this is rounded-off to 2000g. The examiner has no time to calculate the actual m.w. by

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adding up the atomic weights of each constituent of the compound of example 3. If examiner has over estimated the m.w. by a factor of two, then the calculated specific activity would be 1600 mci/mg. If examiner has under estimated the m.w. by a factor of two, then the calculated specific activity would be 400mci/mg. In any case, the calculated values well exceed instantly recited "5mci/mg."

Instant dependent claims 2-4 are included since example 11 shows 90 Y as the isotope. Claims 6-7 and 49 are included because Albert et al incubate for three minutes (col.19, line 43). Claim 18 is included since compound of Ex. 3 has a DTPA derivative as the chelating group. Claims 10-13 are included, since the 0.1M NH40AC solution at pH 5.0 (col.19, line 42) is considered to provide acceptable pH and buffering conditions. The incubation at room temperature (col.19, line 43) is consistent with "about 25 degrees C."

Claims 52-55 and 62-63 are included since all recited values are consistent with the disclosed radiochemical purity of 99.5%.

The binding specificites recited in claims 18 and 60-61 are considered consistent with the disclosure that the chelating group is attached to an amino group which does not significantly interfer with or prevent receptor binding of the thus modified peptide (col.1, lines 22-24).

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4) NEW GROUNDS OF REJCTION UNDER 112

Claims 1-16, 18 and 49-63 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention.

In claim 1, part (ii) "sufficient binding specificity" is unclear. While the preceding term

"ligand" implies there is a receptor therefor, it is not clear what the protein or peptide binds to.

Also "sufficient" is unclear, since no purpose for accomplishing the "binding" is set forth.

Applicant's arguments with respect to claims 1-16, 18 and 49-63 have been considered

but are moot in view of the new ground(s) of rejection.

5) CONTACTS

Any inquiry concerning this communication from the examiner should be directed to

David A Saunders, PhD whose telephone number is 571-272-0849

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Christina Chan, can be reached on 571-272-0841. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-1600.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAVID SAUNDERS
PRIMARY EXAMINER

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